

## access plastics limited

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### PRODUCT DATA SHEET

## Recycled PETg Flat Sheet

Recycled PETg flat sheet is an extruded thermoplastic copolyester flat sheet, from recycled PETg (Polyethylene Terephthalate Glycol Comonomer). The sheet is characterised by excellent strength to weight ratio, outstanding optical clarity, fire resistance and its exceptional thermoforming properties particularly at low temperatures. The superior quality of the sheet ensures suitability for a diversity of applications.

#### Product Range

Colour	Light Transmission DIN 5036
Clear	87% (3 mm)

Standard Sheet Sizes	Thickness (mm)
2050 x 3050mm	3 to 10 mm

\*Non-standard sizes are available subject to minimum order quantities.

	3.81kg/m <sup>2</sup>	3 mm
	5.08kg/m <sup>2</sup>	4 mm
	6.35kg/m <sup>2</sup>	5 mm
	7.62kg/m <sup>2</sup>	6mm
<b>U-Value</b>	5.41	W/ m <sup>2</sup> K (3mm)

Applications	
Signage & displays	Poster covers
Point of sale equipment	Vending equipment
Thermoforming	Protective screens

#### Installation

Applications must make adequate allowance for thermal movement, nominally 3.5 mm per metre. Adequate clearance must be allowed in the holes drilled for fixing. Sheet lengths have to be limited so that there is no excessive movement at the ends.

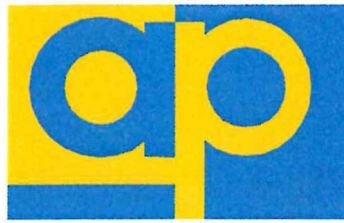
For example, 3.0mm sheets can be cold curved down to a minimum radius of 450mm. For good design practice it is advised that a 3.0mm flat sheet not be curved below 525mm.

#### Service Temperature

Recycled PETg flat sheet mechanical performance is known to remain stable in prolonged service temperatures ranging from -20 to + 60°C. Therefore it can be installed in a diversity of applications, with varying temperatures.

#### Storage & Handling

Recycled PETg flat sheets are best stored indoors under ambient warehouse conditions up to 20°C, away from direct sunlight, in a cool dry store. In case of outdoor storage, additional all-round cover is necessary. The surface masking film should remain on the sheet until it is ready for use. Avoid standing sheets on end.



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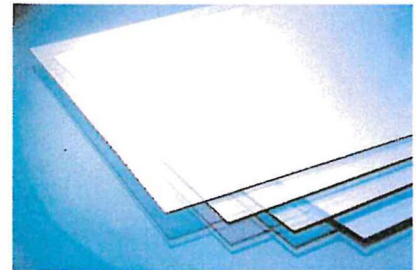
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### PRODUCT DATA SHEET

# marpet-gfs

FLAT PET-g SHEET

## Flat Sheet Recycled PETg



Typical Properties of recycled Marpet-gfs (Polyethylene Terephthalate Glycol Co-monomer)		
Properties	Test Method	Value
<b>Physical</b>		
Base polymer	Polyethylene Terephthalate Glycol Co-monomer (PETg)	
Density	ISO 1183	1.27 g/cm <sup>3</sup>
Smell		Odourless
Moisture absorption (24 hrs @ 23°C)	ISO 62-4	<0.2% by weight
Water solubility	DIN 53122	Insoluble
<b>Optical</b>		
Transmittance (3000µm)	ASTM D-1003	83-87%
Haze (3000 µm)	ASTM D-1003	>1%
<b>Mechanical</b>		
Tensile Strength at Yield	ISO 527	≤50 MPa
Tensile Strength at Break	ISO 527	≤25 MPa
Tensile Elongation at Yield	ISO 527	5%
Tensile Elongation at Break	ISO 527	>100%
Elastic Modulus	ISO 178	<2100 MPa
Flexural Strength	ISO 178	≤80 MPa
Notched Charpy Impact	ISO 179	2.5-3 kJ/m <sup>2</sup>
Rockwell Hardness ( R-Scale)		100R
<b>Thermal</b>		
Vicat Softening Temperature	ISO 306 (B)	80°C
Thermal conductivity, K	DIN 52612	0.2 W/m <sup>2</sup> K
Thermal expansion coefficient	ISO 75-2	0.068 mm/m <sup>2</sup> K
Service Temperature Range		-20 to +60°C

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